

Storm Data and Unusual Weather Phenomena - April 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
IOWA, Southwest				
(IA-Z043) MONONA, (IA-Z055) HARRISON, (IA-Z056) SHELBY, (IA-Z069) POTTAWATTAMIE, (IA-Z079) MILLS, (IA-Z090) FREMONT				
	04/01/13 00:00 CST		0	Drought
	04/23/13 00:00 CST		0	
Drought conditions improved markedly or ended across much of western Iowa during April as precipitation amounts of between 4 and 6 inches fell over the area as temperatures remained cooler than normal. The precipitation amounts were around 1.5 to 2.5 inches above normal.				
HARRISON COUNTY --- 0.9 SE MAGNOLIA [41.69, -95.87]				
	04/09/13 19:55 CST		0	Hail (1.00 in)
	04/09/13 19:55 CST		0	Source: Trained Spotter
A very atypical early spring storm brought a mix of winter weather and severe thunderstorms to eastern Nebraska and parts of western Iowa April 9th and 10th. An Arctic cold front pushed across the area early on April 9th bringing subfreezing temperatures to northeast Nebraska and northwest Iowa. Meanwhile, a large upper level low pressure system tracking northeast out of the southern Rockies fed warmer and unstable air across the area above this shallow cold air. Scattered severe thunderstorms developed in southeast Nebraska with temperatures in the 30s and 40s during the evening of the 9th, and a few of these storms moved into western Iowa.				
PAGE COUNTY --- 0.9 NW CLARINDA [40.74, -95.04]				
	04/17/13 05:25 CST		0	Hail (0.88 in)
	04/17/13 05:30 CST		0	Source: Emergency Manager
Hail up to nickel-size fell for several minutes around Clarinda.				
Scattered thunderstorms moved across eastern Nebraska and southwest Iowa during the morning of April 17th. The storms developed well north of a stationary front as low pressure aloft moved from the southern Rockies toward the plains.				
NEBRASKA, East				
(NE-Z011) KNOX, (NE-Z012) CEDAR, (NE-Z015) THURSTON, (NE-Z016) ANTELOPE, (NE-Z017) PIERCE, (NE-Z018) WAYNE, (NE-Z030) BOONE, (NE-Z031) MADISON, (NE-Z032) STANTON, (NE-Z033) CUMING, (NE-Z034) BURT, (NE-Z042) PLATTE, (NE-Z043) COLFAX, (NE-Z044) DODGE, (NE-Z045) WASHINGTON, (NE-Z050) BUTLER, (NE-Z051) SAUNDERS, (NE-Z052) DOUGLAS, (NE-Z053) SARPY, (NE-Z065) SEWARD, (NE-Z066) LANCASTER, (NE-Z067) CASS, (NE-Z068) OTOE, (NE-Z078) SALINE, (NE-Z088) JEFFERSON, (NE-Z089) GAGE, (NE-Z090) JOHNSON, (NE-Z091) NEMAH, (NE-Z092) PAWNEE, (NE-Z093) RICHARDSON				
	04/01/13 00:00 CST		0	Drought
	04/30/13 23:59 CST		0	
Drought conditions improved or ended over much of eastern Nebraska during April as precipitation of 3.5 to around 5 inches fell over most of the area. These amounts were around 1 to over 2.5 inches above normal and coincided with below normal temperatures and reduced evaporation. Thus no counties in eastern Nebraska maintained Exceptional Drought intensity with northeast Nebraska, along and northwest of a line from Columbus to Wayne, improving into the Extreme Category. The rest of eastern Nebraska had improved to Severe or Moderate Intensities, with counties in the latter category generally south through east of Lincoln. The drought in northeast Nebraska persisted into May.				
PLATTE COUNTY --- 1.0 E (OLU)COLUMBUS ARPT [41.45, -97.31]				
	04/09/13 03:19 CST		0	Hail (1.00 in)
	04/09/13 03:19 CST		0	Source: Trained Spotter
Hail up to quarter-size was accompanied by thunderstorm wind gusts that were estimated to have reached 65 mph just east of Columbus.				
PLATTE COUNTY --- 1.5 SSW (OLU)COLUMBUS ARPT [41.43, -97.34]				
	04/09/13 03:19 CST		0	Thunderstorm Wind (EG 56 kt)
	04/09/13 03:19 CST		0	Source: Trained Spotter
Thunderstorm wind gusts were estimated to have reached 65 mph just east of Columbus. The winds were accompanied by hail up to quarter-size.				
COLFAX COUNTY --- 1.0 W SCHUYLER [41.45, -97.09], 1.0 E ROGERS [41.47, -96.91]				

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	04/09/13 03:27 CST		0	Thunderstorm Wind (EG 75 kt)
	04/09/13 03:45 CST		0	Source: NWS Storm Survey

Thunderstorm wind gusts estimated at over 80 mph caused a swath of damage from west of Schuyler through Rogers and into Dodge county. In Colfax county trees were snapped and center pivots were overturned.

DODGE COUNTY --- 3.3 W BAY STATE [41.47, -96.89], NORTH BEND [41.47, -96.78]

04/09/13 03:45 CST		0	Thunderstorm Wind (EG 87 kt)
04/09/13 03:55 CST	2	0	Source: NWS Storm Survey

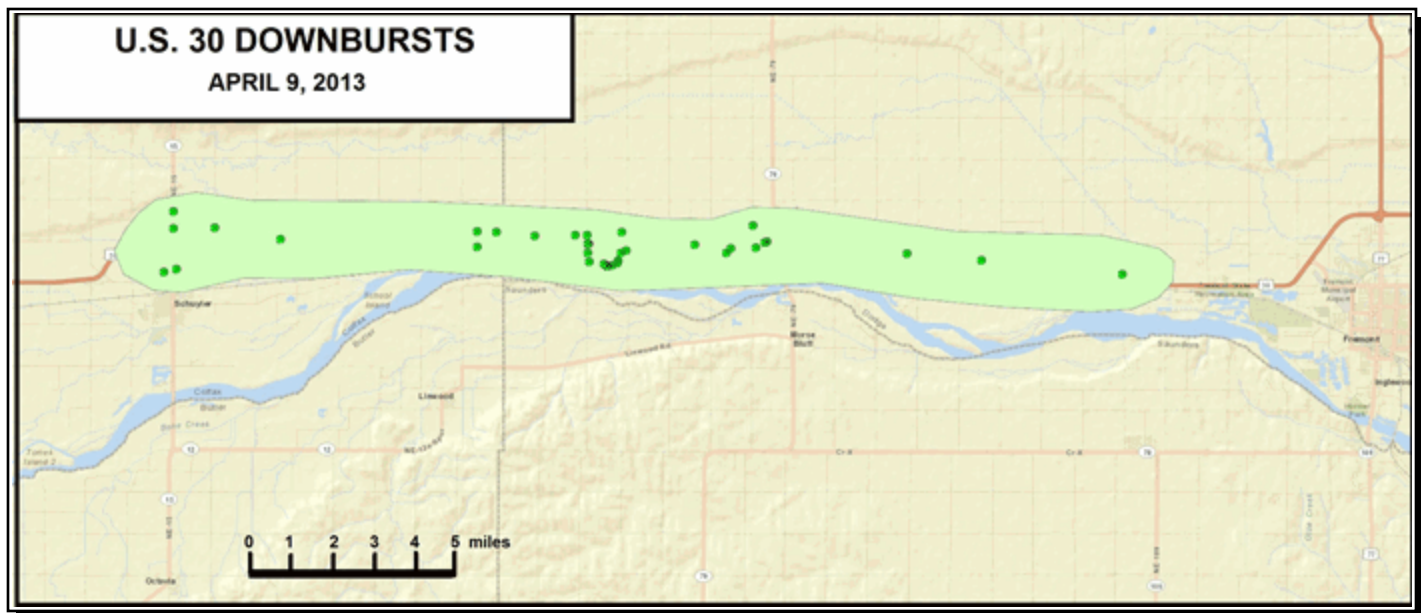
A NWS storm survey estimated that straight line winds reached an estimated 100 mph near North Bend. Twenty-one cars of a 138-car empty coal train derailed west of town and an unsecured mobile home was destroyed injuring 2 people. Trees were snapped in the area and center pivots were flipped along the path of the storm that began its damage in Colfax county to the west and continued east to just west of Fremont.

DODGE COUNTY --- NORTH BEND [41.47, -96.78], 1.5 WNW FREMONT ARPT [41.46, -96.56]

04/09/13 03:55 CST		0	Thunderstorm Wind (EG 70 kt)
04/09/13 04:02 CST		0	Source: NWS Storm Survey

Thunderstorm wind gusts estimated at over 70 mph snapped trees and overturned center pivots from near North Bend to just west of Fremont. The damage from this storm began in Colfax county, reached its peak just west of North Bend and then weakened as it approached Fremont.

Scattered strong to severe thunderstorms developed mostly behind a cold front that pushed across the area late on April 8th. By the early morning hours of the 9th a cluster of these storms formed west of Columbus began surging east in a bow echo that produced a swath of wind damage from near Schuyler to just west of Fremont. Winds were estimated to have reached around 100 mph at the peak near and just west of North Bend where an empty coal train was derailed and an unsecured mobile home was destroyed injuring 2 people. Numerous center pivots were overturned along the path and some trees were snapped.



Damage map of wind storm along US30 in eastern Nebraska.

(NE-Z011) KNOX, (NE-Z012) CEDAR, (NE-Z016) ANTELOPE, (NE-Z017) PIERCE, (NE-Z018) WAYNE, (NE-Z030) BOONE, (NE-Z031) MADISON, (NE-Z032) STANTON, (NE-Z042) PLATTE

04/09/13 09:00 CST		0	Winter Storm
04/11/13 01:00 CST		0	

PLATTE COUNTY --- 7.7 S ROSENBERG [41.54, -97.75]

04/09/13 13:28 CST		0	Hail (1.00 in)
04/09/13 13:28 CST		0	Source: Trained Spotter

The hail was mostly pea-size, but some stones reached quarter-size. The hail covered the ground and was accompanied by freezing rain and sleet with temperatures below freezing.

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PLATTE COUNTY --- 0.5 E CORNLEA [41.68, -97.57]				
	04/09/13 13:44 CST		0	Hail (1.25 in)
	04/09/13 13:44 CST		0	Source: Public
Hail up to half-dollar size was reported near Cornlea. With temperatures below freezing, the hail was accompanied by freezing rain and sleet.				
MADISON COUNTY --- 3.5 SW MADISON [41.79, -97.51], 0.6 ESE MADISON [41.83, -97.46]				
	04/09/13 13:50 CST		0	Hail (0.88 in)
	04/09/13 14:00 CST		0	Source: Public
Hail up to nickel size fell from southwest Madison into Madison for about 10 minutes with a few stones eventually reaching quarter-size at 3 pm CDT. The hail fell from thunderstorms that were occurring with temperatures below freezing, thus they were accompanied by freezing rain and sleet.				
MADISON COUNTY --- MADISON [41.83, -97.47]				
	04/09/13 14:00 CST		0	Hail (1.00 in)
	04/09/13 14:00 CST		0	Source: Law Enforcement
Hail up to nickel size fell from southwest Madison into Madison for about 10 minutes with a few stones eventually reaching quarter-size at 3 pm CDT. The hail fell from thunderstorms that were occurring with temperatures below freezing, thus they were accompanied by freezing rain and sleet.				
BOONE COUNTY --- 0.7 S CEDAR RAPIDS [41.56, -98.15]				
	04/09/13 14:10 CST		0	Hail (1.00 in)
	04/09/13 14:10 CST		0	Source: Law Enforcement
Hail up to quarter-size was accompanied by freezing rain and sleet in the Cedar Rapids area.				
STANTON COUNTY --- 8.7 NW STANTON [42.03, -97.36]				
	04/09/13 14:22 CST		0	Hail (0.75 in)
	04/09/13 14:22 CST		0	Source: Emergency Manager
Hail up to dime-size was accompanied by freezing rain and sleet several miles east of Norfolk.				
WAYNE COUNTY --- 0.7 N WAYNE [42.24, -97.02]				
	04/09/13 14:38 CST		0	Hail (1.50 in)
	04/09/13 14:47 CST		0	Source: Public
Hail up to 1.5 inches in diameter fell for around 10 minutes in the Wayne area. With temperatures below freezing, the hail was accompanied by freezing rain and sleet.				
ANTELOPE COUNTY --- OAKDALE [42.07, -97.97]				
	04/09/13 15:05 CST		0	Hail (0.75 in)
	04/09/13 15:05 CST		0	Source: COOP Observer
With temperatures below freezing, the hail was accompanied by freezing rain and sleet.				
BUTLER COUNTY --- DAVID CITY [41.25, -97.13]				
	04/09/13 16:45 CST		0	Hail (1.00 in)
	04/09/13 16:45 CST		0	Source: Law Enforcement
The hail was mostly nickel-size, but a few stones reached around quarter-size.				
LANCASTER COUNTY --- 1.1 E EMERALD [40.82, -96.80]				
	04/09/13 17:21 CST		0	Hail (0.75 in)
	04/09/13 17:21 CST		0	Source: Trained Spotter
LANCASTER COUNTY --- 2.2 WSW ARROW ARPT [40.86, -96.69]				
	04/09/13 17:24 CST		0	Hail (1.25 in)
	04/09/13 17:24 CST		0	Source: Trained Spotter
PAWNEE COUNTY --- 5.3 W DU BOIS [40.02, -96.15]				

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	04/09/13 17:30 CST		0	Hail (1.50 in)
	04/09/13 17:30 CST		0	Source: Public

Hail up to 1.5 inches in diameter caused some scattered siding damage south of Pawnee City.

SAUNDERS COUNTY --- VALPARAISO [41.08, -96.83]

04/09/13 17:32 CST	0	Hail (1.00 in)
04/09/13 17:32 CST	0	Source: Trained Spotter

DODGE COUNTY --- 0.7 S AMES [41.44, -96.63]

04/09/13 17:33 CST	0	Hail (0.75 in)
04/09/13 17:33 CST	0	Source: Trained Spotter

RICHARDSON COUNTY --- 3.0 W HUMBOLDT [40.17, -95.99], HUMBOLDT [40.17, -95.93]

04/09/13 17:48 CST	0	Hail (1.75 in)
04/09/13 17:51 CST	0	Source: Law Enforcement

Hail up to golf ball-size fell from west of Humboldt into Humboldt. The hail was accompanied by winds estimated at around 60 mph.

RICHARDSON COUNTY --- 1.6 W HUMBOLDT [40.17, -95.96]

04/09/13 17:50 CST	0	Thunderstorm Wind (EG 52 kt)
04/09/13 17:50 CST	0	Source: Law Enforcement

Thunderstorm winds estimated at around 60 mph were accompanied by hail up to golf ball-size. The winds and hail broke out the window of a police car.

DODGE COUNTY --- 3.0 NNE BAY STATE [41.51, -96.81]

04/09/13 17:55 CST	0	Hail (1.00 in)
04/09/13 17:55 CST	0	Source: Trained Spotter

NEMAHA COUNTY --- 0.9 SW AUBURN ARPT [40.39, -95.79]

04/09/13 18:15 CST	0	Hail (1.00 in)
04/09/13 18:15 CST	0	Source: Public

CASS COUNTY --- 0.9 NW MURDOCK [40.93, -96.28]

04/09/13 19:00 CST	0	Hail (0.88 in)
04/09/13 19:00 CST	0	Source: Trained Spotter

SARPY COUNTY --- 1.2 ENE GRETNA [41.15, -96.23], 1.0 NW CHALCO [41.19, -96.16]

04/09/13 19:10 CST	0	Hail (2.00 in)
04/09/13 19:25 CST	0	Source: NWS Employee

Hail up to 2 inches in diameter, covering the ground in many areas, fell from near Gretna northeast into Douglas county near 161st and Harrison Streets. The hail caused some roof, window and vehicle damage in the area.

DOUGLAS COUNTY --- 2.6 WSW OMAHA MILLARD ARPT [41.19, -96.17], 3.0 NW (OVN)WSFO OMAHA [41.36, -96.10]

04/09/13 19:15 CST	0	Hail (2.50 in)
04/09/13 19:38 CST	0	Source: NWS Employee

A severe thunderstorm produced a swath of hail that was quarter to golf ball -size, and even a little larger, that covered the ground across the western sections of Omaha. A few stones even reached tennis ball-size a few miles east of Bennington. The storm first produced severe size hail near Gretna in Sarpy county. The hail caused vehicle and house damage across western Omaha including broken windows, siding and roof damage. Much of the damage in Douglas county was east of 180th Street and west of 114th Street and stretched from Harrison Street northeast through Fort Street to east of Bennington.

WASHINGTON COUNTY --- 0.7 S FT CALHOUN [41.46, -96.03]

04/09/13 19:43 CST	0	Hail (1.75 in)
04/09/13 19:43 CST	0	Source: Law Enforcement

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above this shallow cold air. A mix of freezing rain and snow spread over northeast Nebraska during the morning of the 9th and by afternoon scattered thunderstorms developed and moved across that area. These storms intensified the freezing rain, mixing at times with heavy sleet and in some cases even large hail. Farther southeast, even with temperatures in the 30s and 40s, severe thunderstorms developed during the evening that produced even larger hail. One storm that moved across the western sections of the Omaha metro caused extensive damage as it dropped quarter to golf ball-size and even larger stones that covered the ground. The freezing rain and sleet caused some power outages in northeast Nebraska along with the cancellation of school on the 10th.

OTOE COUNTY --- 0.9 NE NEBRASKA CITY ARPT [40.68, -95.86]

04/17/13 10:00 CST

0

Hail (0.75 in)

04/17/13 10:00 CST

0

Source: NWS Employee

Pea to dime-size hail covered the ground in the Nebraska City area.

Scattered thunderstorms moved across eastern Nebraska and southwest Iowa during the morning of April 17th. The storms developed well north of a stationary front as low pressure aloft moved from the southern Rockies toward the plains.